Adele Chinda

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Summary of Qualification

- Experience in quantitative and qualitative research methods, including statistical analysis, experiments, data collection, hypothesis testing, and case studies
- Experience in designing controlled experiments for testing hypotheses, especially in the context of machine learning experiments.
- Extensive experience in gathering, cleaning, and preprocessing data for analysis, with familiarity with data acquisition techniques, data scraping, and data augmentation.
- Experience in machine learning techniques and methodologies, including supervised and unsupervised, reinforcement, deep, and transfer learning
- Experience in designing and training deep neural networks, handling large datasets, and optimizing model performance.

Research Interests

My research is primarily centered on Machine Learning Algorithms and Techniques, Computer Vision and Image Processing, Natural Language Processing and Understanding, Robotics and Autonomous Systems, as well as Intelligent Control Systems.

Education

Belgorod State University   Sept 2020 - July 2024 *(Expected)*

BSc in Applied Computer Science   GPA: 3.87/4.0

Supervisor: Assoc. Prof. Bolgova Evgenia

Publications

Automated Hyperparameter Optimization [link]   2023
World Science: Problems and Innovations
Adele Chinda, Maxim Pamanin

Transformer Architecture In Artificial Intelligence [link]   2023
Global Science
Adele Chinda, Vladislav Gromiychuk

Support Vector Machines [link]   2023
Modern Scientific Knowledge
Adele Chinda, Nikita Derevlev

Perceptron-Based Deep Learning: A Literature Review [link]   2023
Global Science
Adele Chinda

Analyzing the Dynamics of Recurrent Neural Networks [link]   2023
World Science: Problems and Innovations
Adele Chinda, Viktor Dorokhov

Development of a Computing Cluster Based on NVIDIA TESLA * [link]   2022
International Center for Scientific Cooperation "Science and Education"
Adele Chinda

*published in Russian Language

Experience

Robotics and Mechatronics Lab - Belgorod State University   *July 2023 - Present*
Undergraduate Research Assistant | Supervisor: Prof. Olga Khudasova
- Developing an intelligent control algorithm for a non-linear system that would enhance the performance of robots and automated systems.

Open School of Engineering   *September 2022 - May 2023*
AI Developer | Supervisor: Prof. Olga Khudasova
- Made a substantial contribution to a project centered around the development of a Drone Navigation System, actively involved in all stages from design to implementation.

Institute of Engineering and Digital Technologies - BSU   *May 2022 - July 2022*
Undergraduate Research Assistant | Supervisor: Prof. Bugaeva Ekaterina
- Worked on the re-engineering of a real estate agency, incorporating an AI-powered CRM system for housing prices prediction and automation of agency workflow.

Selected Projects

Traver - AI powered stock portfolio manager
- Integrated artificial intelligence techniques with the Alpaca Markets API to develop an AI-powered stock market prediction application, providing users personalized buy and sell recommendations.

Computer Vision-Based Navigation System for Drones (State-Level Project)
- Developed a novel algorithm for tracking the drone's position and orientation using a combination of sensors.
- Implemented a robust obstacle avoidance system that allowed the drone to safely navigate in complex environments.

Voice Assistant: GPT-3.5-turbo + Bing GPT-4 [link]
- Designed a voice-activated assistant that uses NLP and machine learning techniques to understand and respond to user input. The assistant runs on both Microsoft Bing GPT-4 and OpenAI GPT-3.5-turbo.

Language Classification System [link]
- Implemented a language classification system that preprocesses a dataset of text samples, extracts linguistic features, analyzes feature correlations, trains a decision tree classifier, evaluates the model's performance, and enables model saving and loading.

Professional Activities

Russian Association of Artificial Intelligence (РАИИ) program 2023 (website)

Russian TECH WEEK 2023 (website)

ACM AI/ML TechTalk webinar (website)

Innopolis AI Conference (website)

Selected Awards

Federal Scholarship, Nigeria (2019)
- Recipient of the prestigious Federal Scholarship in Nigeria, awarded annually to less than 150 students nationwide.

Russian Scholarship of Academic Excellence (2020)
- Recognized for academic excellence through the receipt of the Russian Scholarship of Academic Excellence, which reflects exceptional scholarly accomplishments.

Second Place, Russian Association of Artificial Intelligence Summer Research Project (2023)
- Secured the second-place position in the esteemed Russian Association of Artificial Intelligence's summer research project.

Skills

Programming Languages: Python, MATLAB, Java, JavaScript, C++, Bash

Libraries and Frameworks: TensorFlow, Keras, PyTorch, HuggingFace, Pandas, Scikit-learn, Numpy

Languages: English (Professional), Russian (Fluent), Yoruba (Native), Spanish (Novice)